

Title (en)

IONIC SALT COMBINATIONS IN POLYMER ELECTROLUMINESCENT INKS

Title (de)

KOMBINATIONEN IONISCHER SALZE IN ELEKTROLUMINESZENTEN POLYMERTINTEN

Title (fr)

ASSOCIATIONS DE SELS IONIQUES DANS DES ENCREES ELECTROLUMINESCENTES POLYMERES

Publication

EP 2475739 A1 20120718 (EN)

Application

EP 10816186 A 20100910

Priority

- US 55731609 A 20090910
- US 2010048486 W 20100910

Abstract (en)

[origin: US2011057151A1] Luminescent ink formulations containing multiple salts selected for good ionic mobility, thermal stability, compatibility with light emitting polymers, good solubility in ink solvents, and electrochemical stability improve the performance of electroluminescent ink. As one salt may not contain all the required properties, a combination of salts is chosen based on the physical and chemical properties of different salts. When multiple salts are incorporated into a light emitting polymer layer, devices show improved lifetime and overall device performance.

IPC 8 full level

C09K 11/06 (2006.01); **C09D 11/00** (2014.01); **C09D 11/10** (2014.01); **C09D 11/50** (2014.01); **H01L 51/50** (2006.01)

CPC (source: EP KR US)

C09D 11/10 (2013.01 - EP KR US); **C09D 11/50** (2013.01 - EP KR US); **C09K 11/06** (2013.01 - EP KR US); **H10K 50/135** (2023.02 - KR); **C09K 2211/1425** (2013.01 - EP KR US); **H10K 50/135** (2023.02 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

US 2011057151 A1 20110310; CN 102782083 A 20121114; EP 2475739 A1 20120718; EP 2475739 A4 20140917; JP 2013504663 A 20130207; KR 20120083396 A 20120725; WO 2011032010 A1 20110317

DOCDB simple family (application)

US 55731609 A 20090910; CN 201080049076 A 20100910; EP 10816186 A 20100910; JP 2012528937 A 20100910; KR 20127009142 A 20100910; US 2010048486 W 20100910